

19980929.ba v02_n235.bam.980929 v02_n236.bam.980929

>From ???@??? Wed Sep 30 08:02:25 1998
Message-Id: <199809291153.GAA08867@sco.theporch.com>
Date: Tue, 29 Sep 1998 06:51:42 CDT
Subject: BOATANCHORS digest 2235

BOATANCHORS Digest 2235

Topics covered in this issue include:

- 1) Watkins Johnson RS 111
by ALanger394@aol.com
- 2) Gonset GSB-100 Manual Needed
by Matt Jodziewicz <mattj@oraus.com>
- 3) DeForest Course Materials
by David Stinson <arc5@ix.netcom.com>
- 4) Estate sale pricing help?
by Gary Gitzen <garyg@cup.hp.com>
- 5) Cosmophone executes HCF
by polepeeg@aa4rm.ba-watch.org (Marty's Refl. Drop)
- 6) Of crystal filters and parasitics
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 7) Re Meissner 3 tube instructions
by philip mccooy <dgnova@erols.com>
- 8) VFO & crystal eliminator for BAs
by David Ross <ross@hypertools.com>
- 9) Magnetostriction resonator
by aa1hb@juno.com
- 10) Re: CX Math & Aftermath.
by "Arden Allen" <gumbear@pacbell.net>
- 11) Re: Of crystal filters and parasitics
by "Arden Allen" <gumbear@pacbell.net>
- 12) Re: Magnetostriction resonator

by Bill Jarvis <maestro@cix.co.uk>
- 13) Wanted: Fused AC Power Plug for Navigator
by davidh@getnet.com
- 14) CX at W6AWO
by Dick Dillman <ddillman@igc.apc.org>
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- 16) Re: PRC-47 transistor sub - Part II
by Kargokult@aol.com
- 17) broadcast station clocks
by "Ken Kinderman" <bc455@hotmail.com>
- 18) Drake C-Line for sale or trade
by kf4kl@ipass.net (Doug Hall)

- 19) Re: Morale Receiver
by Ray Mote <rmote@rain.org>
20) Re: Ground question
by Tom Norris <badger@telalink.net>

From: ALanger394@aol.com
Message-ID: <a8b6e3cc.360fc85d@aol.com>
Date: Mon, 28 Sep 1998 13:33:17 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Watkins Johnson RS 111
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi All

I have a WJ RS 111-1B-35 VHF/UHF Receiver

This particular unit was one of the last made and dates to 1981/2

It is a hybrid boatanchor with Nuvistors, Ceramic Valves and Transistors

The problem i have looks like lost motion in in the UHF Tuner drive assembly
and gives the impression of spongy tuning

The unit is completely original with all seals in place, so i suspect no
one has messed with it

Does any one have any experience with this type of gear box

It is very similar to types fitted in the CEI Ranger of receivers

All help appreciated

Regards

Allan
G6EII

Message-ID: <618805C5F139D211A06F00104B8942F00227C5@ORAMAIL>
From: Matt Jodziewicz <mattj@oraus.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Gonset GSB-100 Manual Needed
Date: Mon, 28 Sep 1998 11:18:57 -0700

MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----=_NextPart_001_01BDEB0C.761EA9B0"

This message is in MIME format. Since your mail reader does not understand this format, some or all of this message may not be legible.

-----=_NextPart_001_01BDEB0C.761EA9B0
Content-Type: text/plain

Well TRW swap meet is always an interesting affair even when it rains (or at least threatens to here in SoCal). Many sellers and some interesting items. Found a much needed coil for a friend's KWS-1 restoration and a few relays for mine. A BA listmember even brought a NC-2-40D speaker and cabinet legs to complete a restoration started well over a year ago!! (THANK YOU JOHN). So now that radio occupies a place of honor in my living room as the family radio with its warm glow and art deco lines. It looks so good it even forced me to clean up my junk in the living room, at least the XYL was happy.

On the way home a very dirty but cute Gonset GSB-100 jumped into my path and begged to go home with me. How could I resist? Anyways, it cleaned up beautifully and apparently came from the Cal State University system (at Bakersfield) according to a label. Checked it out a bit and fired it up. Even works, I think. At least the radio lights come on and the shop light stays lit.

What I need now is a manual or at least a schematic on it. I would also welcome any hints, history, etc. about the rig as I like to learn abit about each one as I have a chance to play with them. Can offer manuals in trade or even green stamps if need be.

Can anybody help?

73 de Matt WB2VZS

-----=_NextPart_001_01BDEB0C.761EA9B0
Content-Type: text/html
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//EN">
<HTML>
<HEAD>
<META HTTP-EQUIV=3D"Content-Type" CONTENT=3D"text/html; =
charset=3DUS-ASCII">

Thanks in advance for any help.

Gary <garyg@cup.hp.com>

Silly Cone Valley, Kalifornia

o/_____cut here_____
o\

Collins 75A-4 Rcvr. VG to EXC condx. Minor paint chip top right corner.
Matching color speaker, no Collins emblem. Could this be an original
matching speaker?

Collins KWS-1 SSB Xmtr. I'd say VG condx overall, with minor surface rust
at the bottom of the frame where the front door attaches.

Collins type 46159 Rcvr, 1.5-3, 3-6, 6-12 mc.
Homebrew Power Supply which may go with above?

Heath SB 220 2KW linear.

Heath PS 1175 "Accessory Power Supply". Is this for the above SB 220?

Viking Ranger, good condx.

Kenwood TM-401B UHF Txcvr.

Kenwood TM-201B 2m Txcvr, with mic.

Kenwood TS-520 SSB Txcvr.

Kenwood TS-50 HF Txcvr.
Astron RS-20A Power Supply (for above?).

Kenwood VF0-520 Remote VF0, SSB compatible for USB/LSB.

Heath "Twoer" Txcvr

Heath "Sixer" Tcxvr

Vibrator Power Supply, 12V, assumed for above Twoer & Sixer?

Heath HD-1410 Electronic Keyer.

Heath HD-15 Phone Patch

Heath SA-2060 Antenna Tuner

BC-349, VG physical condx, original shock mount. Has two drawer handles(?)

on front panel. Added by some owner, or original?

ARC-5 with homebrew power supply.

Hetrodyne Frequency Meter, type CBLC-7402B, with matching calibration book and homebrew power supply.

Cantenna

EV 915 mic + base, grip activated

J-38ish appearing key.

Qty 5 Powerstat 0-250V 6A variacs, no knob, no scale.

Date: Mon, 28 Sep 1998 14:25:38 -0400
From: polepeeg@aa4rm.ba-watch.org (Marty's Refl. Drop)
Message-Id: <199809281825.0AA22440@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Cosmophone executes HCF

Cosmophone working again @ lunch.

Can only guess it's hard-logic macroprocessor executed an HCF.

HCF is the "halt and catch fire" instruction

HCF was an undocumented item IBM 709 repertoire. Since this was a tube computer, HCF was a distinct possibility.

Marty

Message-Id: <3.0.1.32.19980928134613.00ce1660@vuse.vanderbilt.edu>
Date: Mon, 28 Sep 1998 13:46:13 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: Of crystal filters and parasitics
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Two different topics, one post. Better than Certs.

Working on (another) SX-42 (Don't ask how many I have...). Much nicer than the first, the bandswitch is clean. Problem 1: The crystal filter did not seem to be working at all. Feeding it through a 100k resistor, I could find no resonant point. In these sets, the filter is nothing but a

small bakelite rectangle (two halves separated by a porcelain spacer) with the two halves held together by screws. Nothing ventured, nothing gained, I took it apart. It was contaminated by an oily residue, most likely spra-kleen that had leaked in through the joint. Washed everything with acetone (tough stuff that quartz), reassembled, voila! we have resonance. Moral: Don't spritz your crystals. This one was mounted directly on the bandpass switch, which doubtless explains the problem.

Problem 2: Vicious parasitics on band 4 (15-30 MHz) and 6 (55-105 MHz). These arose after replacement of all of the wax caps. I can't speculate on why they arose but it seems like some grounding might have gotten messed up. Since I attached the grounds of nearly all of the new bypasses at the sites for the old ones, it's hard to imagine what is going on. The parasitics were evident with both the oscillator/mixer (7F8) and second RF (6AG5) tubes removed, and stopped with removal of the first RF tube (also 6AG5), so the origin seemed pretty obvious. In any event, consulting Langford-Smith, parasitics are best treated by adding blocking resistors in series with the tube electrodes to degrade the Q of the tuned circuits. Grid resistors (up to 5 k) had little effect. In the end the problem was solved with a 33 ohm resistor in the plate lead of the band 4 coil and a 10 ohm in series with the band 6 coil. It strikes me that so far as a degradation of performance is concerned, these are fairly minimal values with respect to the output impedance of the tube, but I'd appreciate some reassurance on this.

A. B. Bonds

Message-ID: <360FE226.5CF1@erols.com>
Date: Mon, 28 Sep 1998 12:23:18 -0700
From: philip mccooy <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re Meissner 3 tube instructions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Have just put a new scanner into operation. As a trial run made htm copy of Meissner's 3 tube AC-DC radio you people have been talking about. 2 pages. If you want a copy, I can e-mail you the 2 pages in htm format. This is the first time I have done this, and it should be interesting

Message-Id: <3.0.6.32.19980928101822.007adeb0@mail.willapabay.org>
Date: Mon, 28 Sep 1998 10:18:22 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: David Ross <ross@hypertools.com>

Subject: VFO & crystal eliminator for BAs
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

BAfolks -

Some months ago, there was discussion here about designing and building a "crystal eliminator" for BAs.

Someone has done it - for info you can check out:

<http://www.bytemark.com/waveguide/pcvfo.htm>

According to today's specs, it'll put out +5dbm from DC to 54 MCs in .029 CPS increments. Specs also mention +/- 50ppm frequency stability...

The company even provides source code for the software - if you ever wanted to use your mouse as a VFO knob for your S-Line, here's your chance...

I have no idea if this is a real product or not, but did see it advertised on the ARRL's hamfest schedule webpage.

73 and good luck with it
Dave Ross N7EPI ross@hypertools.com

From: aa1hb@juno.com
To: Old Tube Radios <boatanchors@theporch.com>
Date: Mon, 28 Sep 1998 17:35:43 -0400
Subject: Magnetostriction resonator
Message-ID: <19980928.175532.12750.0.aa1hb@juno.com>

A friend showed me a metal cylinder about 5" long and 3/4" diameter with a Collins label describing it as a "Magnetostriction Resonator". It has pins on one end to fit a 9-pin tube socket.

What is it good for?

Thanks for any info,

Charlie aa1hb@juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Message-Id: <199809282246.PAA11334@mail-gw5.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: CX Math & Aftermath.
Date: Mon, 28 Sep 1998 15:48:22 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Marty;

> This's a hot potato the ARRL won't touch but something I'll bet the
QRPers will fix!

That's what leads me to believe the "suits" at ARRL HQ have loyalties
somewhere else than the membership. How dumb do you have to be to not know
that CW is an aural (received by ear) mode and RTTY/AMTOR/Packet is a deaf
and babbling robotics mode??????

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <199809282311.QAA20713@mail-gw5.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Of crystal filters and parasitics
Date: Mon, 28 Sep 1998 16:13:53 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

AB;

> Problem 2: Vicious parasitics on band 4 (15-30 MHz) and 6 (55-105 MHz).
.....

Capacitors are less than ideal devices. They have a certain amount of
residual resistance and inductance due to construction, dielectric, shape
factor, and some Murphy's excrement. Your SX-42 may have been "happy" with
the degree of imperfection in the original caps. Something is different
about your new caps. What was the story with your first (fire tested) '42?

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <199809290015.BAA22019@mail.compulink.co.uk>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>

From: Bill Jarvis <maestro@cix.co.uk>
CC: <boatanchors@theporch.com>
Date: Tue, 29 Sep 1998 01:12:43 +500
Subject: Re: Magnetostriction resonator

On 1998-09-28 aa1hb@juno.com said:

```

aa}A friend showed me a metal cylinder about 5" long and 3/4" diameter
aa}with a Collins label describing it as a "Magnetostriction
aa}Resonator". It has pins on one end to fit a 9-pin tube socket.
aa}What is it good for?
aa}Thanks for any info,
aa}Charlie  aa1hb@juno.com
aa}_-----
aa}You don't need to buy Internet access to use free Internet e-mail.
aa}Get completely free e-mail from Juno at http://www.juno.com
aa}Or call Juno at (800) 654-JUNO [654-5866]

```

They are usually intended to run at an ultrasonic frequency. The bar changes length (slightly) at the resonant frequency, thereby launching ultrasonic waves which can be quite high-powered, with useful effects in cleaning, killing bugs etc.

It's difficult to determine the impedance of the coil without first finding the resonant frequency. It should also be able to operate at harmonics of its fundamental.

CAN be used with a tube like a 6L6 to control the frequency of oscillation at the same time as producing significant power. Use a Colpitts circuit.

===== BILL J. =====
GM8APX, gthr Edinburgh, Scotland, UK

Brevis esse laboro, obscurus fio

Net-Tamer V 1.12 Beta - Registered

From: davidh@getnet.com
Message-Id: <199809290053.RAA26347@gn2.getnet.com>
Subject: Wanted: Fused AC Power Plug for Navigator
Date: Tue, 29 Sep 98 00:53:45 +0000
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

The subject line pretty much says it all. I am looking for a fused plug

for my Navigator. There is no room to install a fuse on the chassis and of course I would rather it be like it was originally.

Anybody have an extra one they might sell me?

Please respond to me directly

73 and TNX,

Dave N7RK

Dave N7RK - Webmaster CADXA
Phoenix, Arizona *DXCC Honor Roll* *WAZ#23 - 75 Meter SSB*

ex-N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor Collector Extraordinaire preferring Hallicrafters, National and what ever else looks interesting!

E-Mail: davidh@getnet.com

My Home Page: <http://www.getnet.com/~davidh>

Visit the Central Arizona DX Association Home page - <http://cadxa.org>

Date: Mon, 28 Sep 1998 20:24:36 -0700 (PDT)
Message-Id: <2.2.16.19980928202410.5087a358@pop.igc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.apc.org>
Subject: CX at W6AWO

As some others have mentioned the number of active CX stations seemed thin upon the band. But I had a great time nevertheless.

Preparation began a couple of days before with the punching of special CX tapes on the Kleinschmidt perforator, these to be used in the Boehme keyer to automate my lusty salvos of CQ CX. The Boehme in turn keyed WB6TMY's Collins 30K-5 transmitter which is about 50 miles north of me and controlled via phone line. Just to keep it all in the family the receiver was a Collins 51J-4.

At 1900Z I ran my VVV tape in preparation for the real thing. When I thought the time was ripe, after two or three passes of the VVV loop, I switched to the CQ CX loop. Since the transmitter was at a remote location I was able to clearly hear any calling stations even through its signals. A single DIT on the frequency would cause me to break the tape and send a snappy DE on the straight key, the way real radiomen do.

I had several enjoyable contacts with guys running everything from a Johnson Navigator to a CE-100V - funny, I never thought of using one of those on CW. 'Course my long distance bill may be a bit high but it was worth it, especially since I can have no transmitters at my home.

Thanks to all who listened for me and thanks to Tracy for making that wonderful old transmitter available.

73,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From: Kargokult@aol.com
Message-ID: <90802fe5.36105bbb@aol.com>
Date: Tue, 29 Sep 1998 00:02:03 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: RS-1 RS-6 production dates
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

the RS-1 seems to date to 1947 from the original manual.
the RS-6 is first mentioned in 'Operation Armageddon' narrative
with 1949 date. [seems to me a VERY sophisticated radio
for that date. also i am surprised how soon they apparently
started leaking out to MARS as, apparently, surplus....]
hue miller

From: Kargokult@aol.com
Message-ID: <ad76f6cd.36105e5b@aol.com>
Date: Tue, 29 Sep 1998 00:13:15 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Re: PRC-47 transistor sub - Part II
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

i realize this is kinda marginal for this group's focus, so i will keep it short. this is more info for the military hybrid set, PRC-47.
john nelson aa7w messaged me:

>Think the 2N1651 is more correct than 2N2287. The 1651 handles
>25 A, which I seem to remember being the correct spec for the PRC-47.
>I have counted 3 different types of germaniums used in the PRC-47s
>that I have salvaged. The NTE substitute for a 2N1651 is NTE-179,
>and can be had in matched pairs as NTE-179MP.

> I have replaced the transistors before using original spares salvaged
>from scrap units. The measurements that I did using a transistor test set
>showed a great deal of difference in gain between germaniums. They
>worked in the set for a while, then "popped" again. When I used fairly
>matched pairs, they lasted. So, I am guessing that the matched pair
>concept might be good for the PRC-47.

> Also, I have subbed industrial silicon transistors with success, after
> changing some of the bias resistors. I don't remember all the detail and
> will have to find the water logged unit that I modified to tell the whole
> story.

hue miller

Message-ID: <19980929045239.23447.qmail@hotmail.com>
From: "Ken Kinderman" <bc455@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: broadcast station clocks
Content-Type: text/plain
Date: Mon, 28 Sep 1998 21:52:39 PDT

Al Klase wrote:

>I had a circuit breadboarded with an NE567 tone decoder IC that would
>detect the WWV 1000 Hz pulse on the hour and zero the clock. I'll >get
>back to this one of these days.

I have one of these clocks, and would love to find a way to sync it with WWV... not that it needs it: it is phenomenally accurate. But I used this kind of clock when I worked at WPAT in NYC in the sixties, and I would love to see that correction action again.

By the way, they're available, along with some interesting info... see www.compassnj.com

73,

Ken Kinderman
WB9OZR
bc455@hotmail.com

Get Your Private, Free Email at <http://www.hotmail.com>

From: kf4kl@ipass.net (Doug Hall)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Drake C-Line for sale or trade
Date: Tue, 29 Sep 1998 05:31:04 GMT
Message-ID: <3611676d.5487513@DOUGHALL>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

Hi folks,
I have a nice Drake C-line for sale or trade.

R-4C, at least an 8.5/10, 24K serial number, has standard SSB filter as well as 500 Hz and 250 Hz CW filters. Also has noise blanker installed. No mods, works well.

T-4XC, also at least an 8.5/10, 26K serial number, Could use new finals soon (output 60-80w), and I will include a new pair (6JB6A)

Drake desk mic (Electrovoice 729SRD). Mic works fine, cosmetically is fair.

AC4 supply

MS4 speaker, cabinet is clean and speaker sounds good

All interconnect cables and manual copies are included.

These radios work well and look great. Both TX and RX include 160m xtals, and RX has the extra 10m xtals. I can email JPG photos if you're seriously interested, and will meet you on the air if you want to hear the transmitter on SSB or CW. Asking \$500 or best offer and you ship from Raleigh NC, but would prefer pickup, or I'll meet you within a reasonable driving distance. Or trade Drakes+cash for a decent kilowatt amplifier that will stand up to RTTY use. Other trades considered - whatcha got?

73,
Doug Hall, KF4KL
Raleigh, NC

Date: Mon, 28 Sep 1998 23:32:11 -0700 (PDT)
From: Ray Mote <rmote@rain.org>
To: Old Tube Radios <boatanchors@theporch.com>
cc: dougsterr@juno.com
Subject: Re: Morale Receiver
Message-ID: <Pine.SUN.4.03.9809282327380.25152-1000000@coyote.rain.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Not sure about the Majestic, but it's similar to the R-100/URR which looks much like that Halliscratcher. On two of the R-100's, the schematic was found painted on the hardboard "shelf" under the chassis. You might try checking that first. As for a manual, nobody I know has ever heard of one, much less seen such a beast! Henry Engstrom in Santa Rosa seems to specialize in morale receivers, so you might want to contact him. Phone: (707) 544-5179. If you give him a call, he can probably fill you in on all the dope on these old rx's.

Am sending to the BA list, as there are undoubtedly others out there with some of these. This is about the third time I've sent this advice to someone on the list.

73....Ray Mote, K5FKT <rmote@rain.org> Oxnard, CA

Message-Id: <3.0.5.32.19980929064110.00a935d0@mail1.telalink.net>
Date: Tue, 29 Sep 1998 06:41:10 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Tom Norris <badger@telalink.net>
Subject: Re: Ground question
Cc: boatanchors@theporch.com
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 04:14 AM 09/29/1998 +0000, you wrote:

> The absolutely "best" grounding material I have ever used is 2"-3"
> wide copper "flashing" strip. Nothing else will cool off an "RF hot"
chassis

The best stuff to use.....

> I've also found 1/2" to 1" OD soft copper tubing also *very*
excellent
> for a ground bus. Bear in mind that a "solid" conductor isn't effective at
> RF like it is at DC due to the "skin effect" phenomenon. I have had some
> lousy results years back using "braid" type grounding straps, unless it was
> for very short jumpers from equipment on tables to the copper strap
> grounding bus. The copper strap will stand the weather outside very nicely

Remember, the less inductance the better. Imagine the strands as individual
conductors, especially after weathering, and especially to short pulses such
as lightning. Would you tie to the ground bus with choke in series with your
gear? I didnt think so.

One thing that works well on solid ground rods is Cadweld. Available at
almost all
electrical supply places. Ask for "one shots". This is an exothermic
welding system,
basically a mini-thermite kit, that permanenetly bonds the wire to the rod.
Solder is
good in most instances, BUT if your gear were to suffer a direct hit, the
solder would
vaporize, and no telling where the actual strike would go at that
particular point.

Take a gander at www.polyphaser.com for some excellent advice on grounding and
surge suppression. They have a book for sale on the subject, and it is well
worth it.

Having used their surge-supression and grounding equipment commercially for
some
years, I can say it is worth every penny and if applied correctly can save
a station from
even a direct, or near direct hit.....

Ask me for stories sometime.

73

Tom Norris

KA4RKT
Comms Specialist
Tennessee Emergency Management Agency

End of BOATANCHORS Digest 2235

>From ???@??? Wed Sep 30 08:03:47 1998
Message-Id: <199809300009.TAA01833@sco.theporch.com>
Date: Tue, 29 Sep 1998 19:09:03 CDT
Subject: BOATANCHORS digest 2236

BOATANCHORS Digest 2236

Topics covered in this issue include:

- 1) Re: Ground question
by "John K9UWA" <k9uwa@cris.com>
- 2) WTB HP-8708A
by "Ed Santavicca" <santavic@ct.picker.com>
- 3) WTD: Manual/Schematic for Meck T60-1 Transmitter
by "Don Buska" <d.buska@aaiate.com>
- 4) WTB Ham-II control box
by "Ed Santavicca" <santavic@ct.picker.com>
- 5) Chatham Electronics E-50 Reg power supply
by Richard Post <post@ouvaxa.cats.ohiou.edu>
- 6) ATT'N: DRAKE COLLECTORS. FS: TR4
by Michael Crestohl <mc@sover.net>
- 7) ATT'N: DRAKE COLLECTORS *ADDENDUM*
by Michael Crestohl <mc@sover.net>
- 8) RAF WWII D Type Keys FS
by BEN NOCK <G4BXD@compuserve.com>
- 9) 80 Mtr xtals FS
by BEN NOCK <G4BXD@compuserve.com>
- 10) KW Electronics KW202 rx FS
by BEN NOCK <G4BXD@compuserve.com>
- 11) Will the real R-320 stand up?
by thompson@mindspring.com
- 12) Hickok info needed
by James.Reid@merisel.com
- 13) ATD Bantam Patch Panels
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>
- 14) SELL: compactron test socket adapters
by David Ross <ross@hypertools.com>
- 15) FS-Some BA's & stuff

- by TubsC@aol.com
- 16) FS: R390A/URR items
by JONWEINER@aol.com
- 17) Meissner receiver kit
by Bob Roehrig <broehrig@admin.aurora.edu>
- 18) HEAVY metal (or transmitter foundation)
by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
- 19) Re: broadcast station clocks
by Bob Roehrig <broehrig@admin.aurora.edu>
- 20) Re: Ground question
by CARRJJ@aol.com
- 21) Re: Of crystal filters and parasitics
by Henry van Cleef <vancleef@netcom.com>
- 22) Re: Ground question
by Dan Martin <dmartin@visuallink.com>
- 23) mystery Tube
by "Edward J. White" <wa3bzt@dpnet.net>
- 24) Re: Ground question
by "Arden Allen" <gumbear@pacbell.net>

Message-Id: <199809291248.IAA29282@marconi.concentric.net>

From: "John K9UWA" <k9uwa@cris.com>

To: Old Tube Radios <boatanchors@theporch.com>

Date: Tue, 29 Sep 1998 07:48:39 +0000

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Subject: Re: Ground question

CC: badger@telalink.net

Hate to sound like a sales pitch for Polyphaser...but!!

-----big snip-----

> Take a gander at www.polyphaser.com for some excellent advice on grounding and
> surge suppression. They have a book for sale on the subject, and it is well
> worth it.

Tom is correct.....Have 3 towers tall one is 190 feet....had 10K
Lightning hit.....Insurance Co. cancelled after paying claim....now
have 100 ground rods all tied together with 1200 feet of 3/8" ID copper
tubing...very low inductance stuff....plus lots of Polyphaser devices
on power lines,telephone lines,catv lines,rotor
cables,antenna switchboxes,coaxes + Hit Counter....been direct hit 5
times in last 4 years.....no damage....

Get their book and read it.....

Not BA....but to protect your BA's..e-mail me if you have questions

de John K9UWA

John Goller, K9UWA & Jean Goller, N9PXF

Antique Radio Restorations
k9uwa@cris.com

<http://www.concentric.com/~k9uwa/>

Message-Id: <9809291248.AA29744@ct.picker.com>
From: "Ed Santavicca" <santavic@ct.picker.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 29 Sep 1998 08:47:46 -0500
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: Quoted-printable
Subject: WTB HP-8708A

Hi guys,

A few months ago someone on our list posted an HP synchronizer for sale. I=92m looking for a model HP-8708A for my HP-606B. Is this the unit that was posted? Is it still for sale?

Tnx.

73, Ed

AA8TV
Lakewood, Ohio

From: "Don Buska" <d.buska@aaiate.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 29 Sep 1998 08:49:01 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Subject: WTD: Manual/Schematic for Meck T60-1 Transmitter
Message-Id: <98Sep29.075524cdt.33157@gateway.aaiate.com>

Well another Radio Expo fest (Grayslake, IL) has past and again it has not let me down! I purchased a very nice transmitter made by John Meck Industries model T60-1. This is one neat little CW/AM transmitter from the late 40's. For those who want to take a peek it appears in Raymond Moores transmitter book and a view of the real thing and some specs also appear on my website. A full page ad also appears in the August 1946 QST page 143.

Now for the documents request. Would someone out there happen to have a

manual and/or schematic for this transmitter. I would be happy to pay for all costs. John Meck Sales was located in Chicago, but the manufacturing end appeared to have been located in Plymouth, Indiana (per ID tag on transmitter).

As for the fest, it appears that this year was a buyers market. Lots of sellers on Saturday and fewer on Sunday. However, buyers seemed to be down on both days (no crowds to fight even inside the buildings). I was able to get around 15 or so very good BA (AM and CW) crystals, including some very nice Bliley VF-1 (variable frequency crystals) that are right in the BA 80 meter CW frequency range. It's been awhile since I've found good HF ham band crystals at a fest.

Enjoyed meeting and talking with all the list members on BA row. Had a great time and made many new friends.

73

Don N900

```
*****
**                                     **
** Don Buska N900 (EN62bo)           Mgr - Parts & Repair Ctr **
** 4805 64th Ave. Kenosha, WI 53144  Advantest America Inc.  **
** (414)654-0072                     (847)821-3393           **
** d.buska@aaiate.com                fax (847)634-2872       **
**                                     **
** ----- Wants ----- **
** RCA      | James Millen Equipment      | CSVHFS **
** AWA      | Transmitters by Thordarson, Stancor, | NTMS   **
** AMI      | UTC and other transformer companies. | ARRL-LM **
** CCA      | Receiver: National NC-101XA w/speaker |      **
** QCWA     | Magazines: 73 Mag's from 1960/61    |      **
**                                     **
** http://www.qsl.net/n900 **
** Home of the Electric Radio Magazine Index & James Millen Page **
*****
```

```
-----
Message-Id: <9809291300.AB00291@ct.picker.com>
From: "Ed Santavicca" <santavic@ct.picker.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 29 Sep 1998 09:00:02 -0500
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7BIT
Subject: WTB Ham-II control box
```

Does anyone have a control box for a Ham-II or Ham-m Hy-Gain/CDE antenna rotator for sale? Or schematic for the same? I can HB a box if I had a schematic.

tnx

73, Ed

AA8TV
Lakewood, Ohio

Message-Id: <v03007800b2368bd5cea7@[132.235.47.54]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 29 Sep 1998 12:12:02 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Richard Post <post@ouvaxa.cats.ohiou.edu>
Subject: Chatham Electronics E-50 Reg power supply

Tubestars,

I found this bargain at the Springfield, OH hamfest last weekend hiding behind and under some modern, less interesting stuff. It has the size and form factor of a rack-mount SP-200 but is a lot heavier. It's a regulated supply with zero to 300 mil and zero to 500 volt meters. It sports a small forest (eight) of 6L6G and 6AS7 tubes as well as a pair of 6AS7, a pair of 5R4, a 5Y3 and several control and voltage regulator tubes.

It has a relay and a time delay which I am assuming assures that the heaters are thoroughly warmed up before high voltage is applied. There are two locked pots on the chassis and two in the back. I am assuming the pots are for setting minimum and maximum voltage and possibly current max?

I could use a schematic before I fire it up. It has two large round "commercial grade" transformers by UTC which according to my '57 Electronics Master are for filament at 10 amps and for hi-volt at 360 mils respectively. Chatham is listed in the Master but the power supply is not.

Am I correct in assuming a similar circuit to the Heath PS-4/ IP-32 / IP-17 hi-volt reg supplies? just more beef? The separate fil and hi-volt transformers and three rectifiers tend to confirm a similar circuit. The Heath circuit uses a pair of 6L6Gx as pass tubes and has both positive and negative supplies so that output voltage can be adjusted to zero. Does this supply go to zero? Are the 6AS7 tubes used for setting a current max? Current max setting is something the Heaths do not have.

Anybody else have one of these? Anybody have specs or a schematic?

Rewiring minds want to know :-)

73, Rich KB8TAD - Keeps Big Tube Active Devices

=====
Boatanchor Pix website - KB8TAD
<http://ouvaxa.cats.ohiou.edu/~post/PIX/BA.html>

visit the Museum of Radio and Technology website
<http://ouvaxa.cats.ohiou.edu/~post/MRT/>

Message-Id: <199809291639.MAA24408@pike.sover.net>
Date: Tue, 29 Sep 1998 12:38:51 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Michael Crestohl <mc@sover.net>
Subject: ATT'N: DRAKE COLLECTORS. FS: TR4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello Gang:

This is for collectors of DRAKE equipment as it has no power supply.

This is a very clean TR-4 - needs just cleaning and a bit of touch-up to be a real nice collector's radio. I do not have the supply but the AC-3 and AC-4 will work.

I do not know that it works so cannot make any statements relative thereto. Looking inside however, everything is clean - no burns or noticable mods, hack jobs. The chassis is quite grunge free.

Price is \$200.00 plus UPS. If interested please reply by e-mail.

73,

Michael Crestohl, W1RC
mc@sover.net

Message-Id: <Version.32.19980929124942.00fb4790@mail.sover.net>
Date: Tue, 29 Sep 1998 12:51:10 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Michael Crestohl <mc@sover.net>
Subject: ATT'N: DRAKE COLLECTORS *ADDENDUM*

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Sorry, forgot the most important thing about the TR-4 I am offering for sale. It has the factory installed noise banker. Serial number is 30K.

73,

Michael, W1RC
mc@sover.net

Date: Tue, 29 Sep 1998 13:03:00 -0400
From: BEN NOCK <G4BXD@compuserve.com>
Subject: RAF WWII D Type Keys FS
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199809291303_MC2-5B0D-C835@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

I have two RAF D Type brass up/down Morse keys

A) Key with cover, very good condition, slight chip on corner =

of base.... hence 50.00 UKP

b) Key, on base, no cover but fine example of brass up/down pounder
30.00UKP

postage to be arranged. =

cheers, Ben.

Date: Tue, 29 Sep 1998 13:03:04 -0400
From: BEN NOCK <G4BXD@compuserve.com>
Subject: 80 Mtr xtals FS
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199809291303_MC2-5B0D-C83C@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

80 Mtrs xtals, HC-6U casing.


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-----=
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-----
35114          35473          35645          36020
35213          35458          35650          36620
35291          35500          35697          37000
35340          35510          35700          37340
35370          35583          35718          37460
35375          35541          35795
35397          35572          35812
35395          35583          35979
35135          35617          35985
35365          35625          35989
-----=
--
-----

```

2 Pound each (US\$3.50)..... plus 50p pp per order
(US\$2)

Ben G4BXD.

```

-----
Date: Tue, 29 Sep 1998 13:03:03 -0400
From: BEN NOCK <G4BXD@compuserve.com>
Subject: KW Electronics KW202 rx FS
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199809291303_MC2-5B0D-C83A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

```

KW Electronics, Dartford, U.K., (early 70's)

KW202 ham bands receiver, (160/80/40/20/15/10)

13 tube, double conversion, 110/220v operation, =

2 speed vfo dial, xtal calibrator, Q Multi, Mech filter, xtal bfo, S mete=
r

6 high by 13 wide by 13 deep, weight 8Kg. =

first class condx, not one scratch on front panel, case has
only tiny marks. =

100.00 UKP, (US\$165) plus postage 10UKP (US 40UKP: US\$65)

cheers, Ben.

From: thompson@mindspring.com
Message-ID: <005901bdebd1\$dc6460a0\$526256d1@default>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Will the real R-320 stand up?
Date: Tue, 29 Sep 1998 13:52:00 -0400

A friend called me last week and told me about his new find..the R-320 made by Bendix. I finally got him to read the back panel info and it says license from RCA, 1946 production date.

His verbal description sounded familiar so I asked him to look at a pic on a web page. Next e-mail said I nailed it...the RCA AR-88. I though the USA military number for the AR-88 was R-360. And only a few were made..most went to the UK and Russia during WW II.

Anyone know what is what?

Dave K4JRB

From: James.Reid@merisel.com
Mime-Version: 1.0
Date: Tue, 29 Sep 1998 10:39:19 -0700
Message-ID: <00325AA9.1413@merisel.com>
Subject: Hickok info needed
To: Old Tube Radios <boatanchors@theporch.com>
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Greetings all,

I need to rework a Hickok 800(not A) tube tester for a special project. Anyone out there have a copy of the schematic they could send me? Copying and hassling costs cheerfully reimbursed. TIA.

-Jim N6SVS
James.Reid@merisel.com

Message-Id: <199809291833.LAA21036@raven.prod.itd.earthlink.net>

Subject: ATD Bantam Patch Panels
Date: Tue, 29 Sep 1998 13:34:24 -0600
From: "Joseph W. Pinner" <kc5ijd@sprintmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Anyone know where I might find some ADC Bantam Patch panels. There use the small phone plug patch cords.

BTW - if you need any of the ADC PJ-702 or PJ-704 patch cords, I have quite a few spares I would be willing to sell/trade.

73

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@sprintmail.com

Message-Id: <3.0.6.32.19980929115006.007bb100@mail.willapabay.org>
Date: Tue, 29 Sep 1998 11:50:06 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: David Ross <ross@hypertools.com>
Subject: SELL: compactron test socket adapters
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

BAfolks -

Just found these at a local surplus emporium - someone must need 'em.

- 1 each Compactron test socket adapter, Pomona Electronics TVS-12
(An extender for a compactron, straight-through connections with a test point on each pin.)
- 1 each "Color Test Adapter", 6JE6 6KM6 Horiz. Output, Cathode Current Pin 3 interrupted. Pomona Electronics 2599A
(pin 3 is not connected internally, but is brought out to red & black wires with alligator clips)

I'll sell the pair and ship 'em to you for \$10

73
Dave Ross N7EPI ross@hypertools.com

From: TubsC@aol.com

Message-ID: <48edf31e.36112e91@aol.com>
Date: Tue, 29 Sep 1998 15:01:37 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: FS-Some BA's & stuff
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Fellow anchorites,

Time to unload some of this stuff... All prices plus shipping.

1. Heath SB100 with power supply and original assembly manual. Excellent cosmetics, I have'nt used it lately, but I presume it still works fine. This was one of my first rigs when I was first licensed in 1994, I'll probably regret letting it go someday but I need the space...
\$150

2. Hallicrafters S-20 (not S20R). I bought this from a fellow on one of the usenet boards, "completely restored"... (I learned a lesson that day...) It is in good shape
BUT, whomever repainted it simply put pieces of masking tape over the panel lettering, then painted the thing... It looks tacky to me... AND, the speaker screen (behind the "h" logo) was replaced with nylon window screen ! (Yikes!). Inside the chassis is very clean, the 80 rectifier is missing, but otherwise it looks complete.
I have a manual for an S-20R to go with this, I dont know how different these two radios are, so... This radio is untested.
\$90

3. Hallicrafters SX-110. In excellent cosmetic and working condition. With original manual.
\$100

4. Knight Y-726 (R-100 in a different case). This one is extensively modified, with a speaker and an S-meter added, also has a homebrew CB transmitter added. Receiver works, CB never tested...
\$40

5. RME DB20 preselector. Lights-up but otherwise untested...
\$30

6. Heath O-10 scope with original manual. Worked last time I turned it on (about

a year ago) but untested as a measurement device...
\$25

This is it for now, I may be selling off some more shortly, so stay tuned...
Chris Krug (KC5IIE)
TubsC@aol.com)

From: JONWEINER@aol.com
Message-ID: <2b64d2f3.36113316@aol.com>
Date: Tue, 29 Sep 1998 15:20:54 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: FS: R390A/URR items
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I have for sale the following R-390A/URR items:

One set (2) original meters. Brand new, with gaskets and sealed hardware packs.
Price \$50., postpaid.

Complete documentation package. Over 2" thick of operation, maintenance, re-building, shipping, and demolition manuals. All punched for three ring binder. Came from an ANG comm unit. Fairly new, with updates thru the mid-'70's. Price for all: \$50., postpaid.

Jon, K1VVC

Date: Tue, 29 Sep 1998 15:09:20 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Meissner receiver kit
Message-ID: <Pine.ULT.3.96.980929150737.6388A-1000000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Whoever sent the .PDF files for the triple 76 Meissner rcvr kit, I lost your name in the process of saving & transferring to the PC. Anyway, Thanks - it came out great and is the model I have (less tubes & coils).

"Nostalgia is a thing of the past"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

630-844-4898 Fax 630-844-5530

Message-Id: <3.0.1.32.19980929222602.006b12f0@pop.ctv.es>
Date: Tue, 29 Sep 1998 22:26:02 +0200
To: Old Tube Radios <boatanchors@theporch.com>
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
Subject: HEAVY metal (or transmitter foundation)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang,

No, I'm not talking of music ;-) but two BIG metal items I have just got. Both of them were taken from a german Siemens marine HF amplifier, running a couple of 813 tubes.

The first is a huge high voltage transformer. It weights 19 kg (about 42 lbs) and has six different selectable input voltages, marked in a plastic plate as 100, 125, 150, 175, 200 and 255 Vac. The output is, according to the seller, about 3000 V. Let's try to do a description of the beast: it is similar to that HV TV transformers, with a winding around only one side of the squared core, but really enlarged: the core has about 40 cm side. The secondary winding has just one wire coming from the outmost part of it. I wonder if it is usual for that kind of transformers...

The second item is an 'small' HV choke... just 11 kg (about 24 lbs) ;-). It has the following written info on the sides:

7774
CAB
S1980

And on top: D37P

I know this material is going to rest for a long time, as my first project is the famous Mighty Midget receiver and I have NEVER worked on a HB linear. But they seem good material, not common in this part of the world, and not too expensive, less than \$80 for both. And, curiously enough, they followed me home (in the rear part of my car ;-)). Anyway, I would like to get information about your experiences with linears and what kind could I build with these items. Any advice will be highly appreciated!.

There were also a couple of used 813s with their ceramic sockets, priced at just \$45 (both of them with sockets), but I passed... Did I the wrong thing?. Which is a fair price for these tubes, in unknow but (supossedly working) condition, along with their ceramic sockets?.

Some other small items I have got for free in same deal are a dual ganged capacitor, with an attached reduction drive (this is ideal for the Mighty Midget receiver, Bill!) and some OLD Philips tubes (EBL1 and AF3). I also got a 1947 tube handbook, printed in Argentina.

Well, that's all for now!.

Best regards.

JOSE

73 EB5AGV / EC5AAU
JOSE V. GAVILA
Ausias March 46, 15
46910 Benetusser - VALENCIA
SPAIN

** VISIT MY VINTAGE RADIO SITE - updated 25-September-1998 ***
<http://www.geocities.com/SiliconValley/6992/>
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

Date: Tue, 29 Sep 1998 15:38:28 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: broadcast station clocks
Message-ID: <Pine.ULT.3.96.980929153556.6388B-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 28 Sep 1998, Ken Kinderman wrote:

> I have one of these clocks, and would love to find a way to sync it with
> WWV... not that it needs it: it is phenomenally accurate. But I used
> this kind of clock when I worked at WPAT in NYC in the sixties, and I
> would love to see that correction action again.

I sync mine from an output derived from am "hours" gate output in a digital clock that is set to Zulu time.

> By the way, they're available, along with some intersting info... see
> www.compassnj.com

Interesting photos & info. My clock is the square one (wish I had one with the sweep second hand). Picked it up at a hamfest for \$15.00.

"Nostalgia is a thing of the past"

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

From: CARRJJ@aol.com
Message-ID: <6dea0bde.3611578b@aol.com>
Date: Tue, 29 Sep 1998 17:56:27 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Re: Ground question
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-09-29 07:55:08 EDT, you write:

<< boatanchors@theporch.com >>
=====

But try finding copper flashing strip (or even aluminum). It seems that vynil has taken over the world...unless you go to the metal wholesalers who deal with professional roofers.

From: Henry van Cleef <vancleef@netcom.com>
Message-Id: <199809292201.PAA02155@netcom13.netcom.com>
Subject: Re: Of crystal filters and parasitics
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 29 Sep 1998 16:01:00 -0600 (MDT)
Cc: boatanchors@theporch.com
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

I'm not copying Al's message about the SX-42, but want to respond to the questions about parasitics.

Yes, 22, 33, and 47 ohm resistors in series with grid and plate leads are fine "squeal stoppers" that have no effect on circuit performance. When dealing with a Hallicrafters radio, one always has to remember that Halligan hired top engineers to do a thorough job of designing the set, and take it into production at minimum cost. That means leaving out things like squeal stoppers if the set didn't show parasitics using the original components.

When recapping an old radio, I keep in mind that I am replacing very large wax paper condensers that were lossy, even when new, with new modern small low-loss caps, and that I am running the risk of

installing parasitics. I go over the circuit and select suitable nearby ground points, rather than running long leads (which have inductance). I also install 47 ohm 1/4 watt resistors in place of any grid or plate jumpers in the original design---they're small, cheap, fit right in, and help assure that I won't suddenly have new parasitics because I changed the actual operating parameters in the circuit with the new caps.

--

=====
Hank van Cleef
=====

Message-ID: <36116704.2115@visuallink.com>
Date: Tue, 29 Sep 1998 19:02:28 -0400
From: Dan Martin <dmartin@visuallink.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Ground question
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

CARRJJ@aol.com wrote:

>

> But try finding copper flashing strip (or even aluminum). It seems that vinyl
> has taken over the world...unless you go to the metal wholesalers who deal
> with professional roofers.

I've successfully used copper foil in grounding applications for years. Easy to work with, easy to route, and when short and installed well provides very low impedance paths to ground. It has been available from HRO for quite some time. May still be. Best source is McMaster-Carr. They list a wide variety of mil-thicknesses, widths, and roll lengths. 2" wide by .003-.004 thick works well. Not cheap, but a roll goes a long way and it is so much better than any of the common gauges of copper wire for rf grounding purposes.

73
Dan
WB4GRA
Winchester, VA

Message-ID: <003701bdec04\$3f305b80\$0f95a4d1@default>
From: "Edward J. White" <wa3bzt@dpnet.net>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: mystery Tube
Date: Tue, 29 Sep 1998 19:52:40 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang:
what is a KS19699-L4 Solid State Thyatron made by Motorola
I know it has a Western Electric desa
Ed WA3BZT

wa3bzt@dpnet.net

Message-Id: <199809300007.RAA19198@mail-gw.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Ground question
Date: Tue, 29 Sep 1998 17:09:30 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Yes, it's common knowledge amongst this collegial group that larger and flatter conductors have less inductance per unit of length than a single cylindrical conductor. My concern is the impulse current (lightening strike) carrying capacity of foil. Seems to me that the small cross sectional area of a foil (or thin sheet) would have such a high thermal resistance that it may vaporize under a few thousand amp surge. I would check the NEC requirements for lightening grounds (maybe Polyphasor has the dope in their book). I would double up a foil grounding system with some fat amperage carrying solid (or stranded) conductors. Paralleling lots of wires in a screen like arrangement works well to lower inductance, but as someone mentioned you need lots of ground rods. Has anyone had experience with an insurance company not paying a claim because of poor grounding which failed to prevent a fire?

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

End of BOATANCHORS Digest 2236
